## § 112.05-3

configuration. When these loads are authorized, the emergency power source must.—

- (1) Be sized to supply these loads using a unity (1.0) service factor; or
- (2) Be provided with automatic load shedding that removes these loads and operates before the emergency generator trips due to overload. The automatic load shedding circuit breakers must be manually reset.
- (d) The regulations in this part have preemptive effect over State or local regulations in the same field.

[CGD 74-125A, 47 FR 15267, Apr. 8, 1982, as amended by CGD 94-108, 61 FR 28286, June 4, 1996; 61 FR 36787, July 12, 1996; USCG-2006-24797, 77 FR 33882, June 7, 2012]

## §112.05-3 Main-emergency bus-tie.

Each bus-tie between a main switchboard and an emergency switchboard must:

- (a) Disconnect automatically upon loss of potential at the emergency switchboard;
- (b) Be arranged to prevent parallel operation of an emergency power source with any other source of electric power, except for interlock systems for momentary transfer of loads; and
- (c) If arranged for feedback operation, open automatically upon overload of the emergency power source before the emergency power source is tripped off the line from the overload.

## § 112.05-5 Emergency power source.

(a) The emergency power source must meet table 112.05–5(a) and have the capacity to supply all loads that are simultaneously connected to it, except a load on a bus-tie to the main switchboard or non-required loads that are connected in accordance with §112.05–1(c).

## TABLE 112.05-5(a)

Size of vessel and service	Type of emergency power source or lighting	Period of operation and minimum capacity of emergency power
Passenger vessels: Ocean, Great Lakes, or coastwise; or on an international voyage.	Temporary emergency power source; and final emergency power source (automatically connected storage battery or an automatically started generator).	36 hours. <sup>1 2</sup>
Other than Ocean, Great Lakes, or coastwise and not on an international voyage.	Final emergency power source (automatically connected storage battery or an automatically started generator).	
Cargo vessels; miscellaneous self-propelled vessels; tankships; barges with sleeping accommodations for more than 6 persons; mobile offshore drilling units; and oceanographic vessels:		
Ocean, Great Lakes, or coastwise and 500 GT or more; on an international voyage and 500 GT or more; or all waters and 1600 GT or more.	Final emergency power source (automatically connected storage battery or an automatically started generator).	18 hours. <sup>1</sup> <sup>2</sup>
Ocean, Great Lakes, or coastwise and less than 500 GT; or other than ocean, Great Lakes, or coastwise, 300 GT or more but less than 1600 GT, and not on an international voyage	Emergency lighting provided by an automati- cally connected or manually controlled storage battery; automatically or manually started generator; or relay-controlled, bat- tery-operated lanterns. <sup>3 4</sup> .	time of run, which-
·		

<sup>&</sup>lt;sup>1</sup>A 12-hour power supply may be especially considered for vessels engaged regularly in voyages of short duration.

<sup>2</sup>The capacity for the operation of the steering gear, as required by §111.93, is for a period of 30 minutes continuous oper-

ation.

The emergency lighting requirements of § 112.15–1 (b), (c), (f), and (g) must be met.

Requirements of Subpart 112.39 must be met by the relay-controlled, battery-operated lanterns.

(b) The emergency power source must be independent of the ship's service lighting and powerplant and propulsion plant, except for the compressed air starting means allowed in §112.50–7(c)(3)(i). A stop control for an emergency generator must be only in the space that has the emergency gener-

ator, except a remote mechanical reach rod is permitted for the fuel oil shut-off valve to an independent fuel oil tank located in the space.

(c) The complete emergency installation must function at full rated power when the vessel is upright or inclined